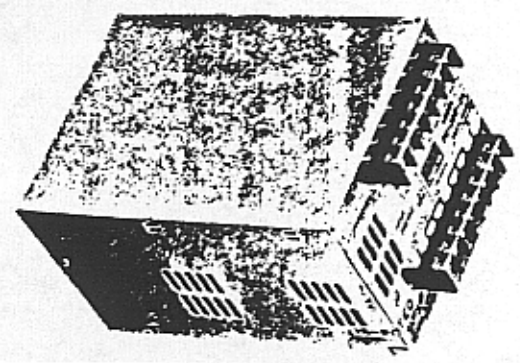
P/N 137390

MEAN WELL SWITCHING POWER SUPPLY

PS-300 SERIES

- LOW COST, HIGH RELIABILITY
- COMPACT SIZE, LIGHT WEIGHT
- 105℃ OUTPUT CAPACITOR
- 100% FULL LOAD BURN-IN TEST
- INTERNATIONAL AC INPUT RANGE
- BUILT IN EMI FILTER, LOW RIPPLE NOISE
- HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- SHORT CIRCUIT, OVERLOAD, OVERVOLTAGE, OVER TEMP. PROTECTED

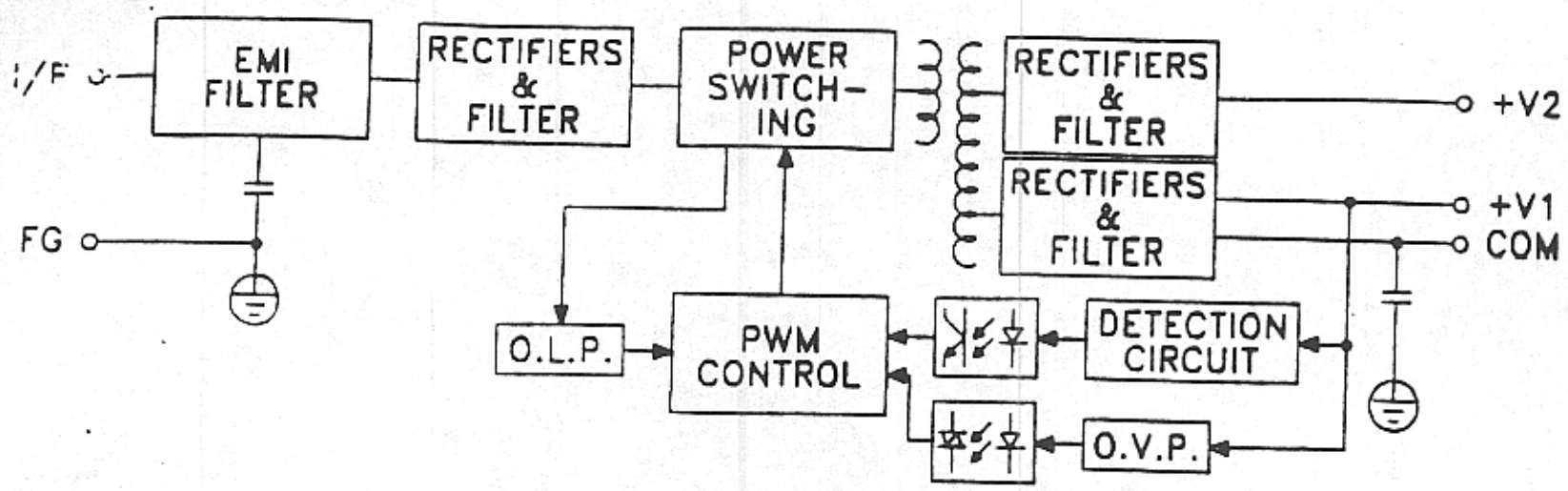


MODEL / SPECIFICATION	PS-300-12	PS-300-24
DC OUTPUT VOLTAGE	12V	24V
OUTPUT V. TOLERANCE	±1%	±1%
OUTPUT RATED CURRENT	25A	12.5A
OUTPUT CURRENT RANGE	0-25A	0-12.5A
RIPPLE & NOISE (p-p)	150mVp-p	200mVp-p
LINE REGULATION	±0.5%	±0.3%
LOAD REGULATION	±0.5%	±0.3%
DC OUTPUT POWER	300W	300W
EFFICIENCY	78%	83%
DC VOLTAGE ADJ.	±10%	±10%
INPUT VOLTAGE RANGE	95～130VAC / 180～260VAC AUTO SWITCH (OPTION)	
INPUT FREQUENCY	47～63Hz	
AC CURRENT	5A/115V 3A/230V	
INRUSH CURRENT	10A/115V 20A/230V	
OVERLOAD PROTECTION	105%～135% TYPE:CONSTANT CURRENT LIMITING RECOVERY:AUTO	
OVER V. PROTECTION	115%～135%	
OVER TEMP. PROTECTION	≧70℃ OUTPUT SHUTDOWN	
TEMP. COEFFICIENT	±0.05% / ℃	
SETUP,RISE,HOLD UP TIME	200ms, 200ms, 20ms	
WITHSTAND VOLTAGE	I/P-O/P:1.5KV I/P-FG:1.5KV O/P-FG:0.5KV 1min.	
WORKING TEMP.,HUMIDITY	-10℃～+60℃, 20%～90% RH (REFER TO OUTPUT DERATING CURVE)	
STORAGE TEMP.,HUMIDITY	-20℃～+85℃, 10%～95% RH	
DIMENSION	185＊120＊93mm CASE:910	
WEIGHT	1.7Kgs	
SAFETY	-----	
EMC	-----	

NOTE:
1. ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25℃ AMBIENT.
2. TOLERANCE : INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3. RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4. LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5. LOAD REGULATION IS MEASURED FROM 0% TO 100% RATED LOAD.

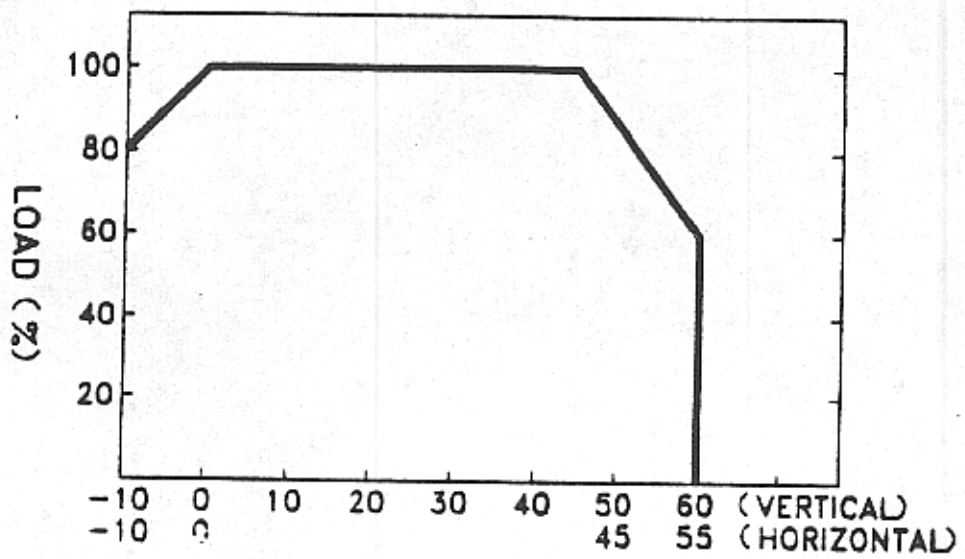
84.10.01

BLOCK DIAGRAM

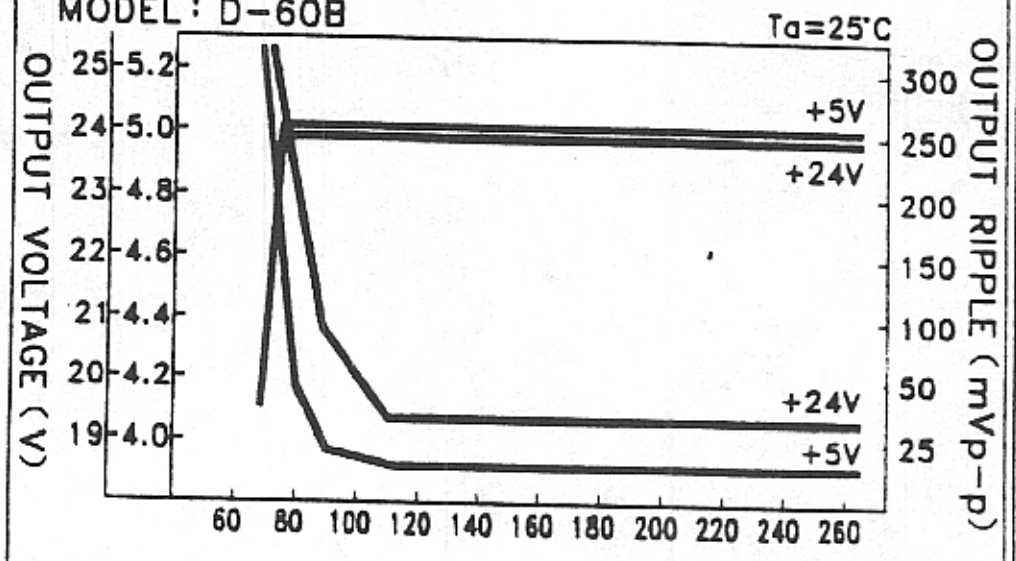


fosc : 54KHz

OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION (mm)

- CASE : 901
- TERMINAL PIN NO. ASSIGNMENT
  - PIN 1,2 : AC INPUT
  - PIN 3 : FG ⏚
  - PIN 4 : DC OUTPUT +V2
  - PIN 5 : DC OUTPUT +V1
  - PIN 6,7 : DC OUTPUT COM